AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-15. (canceled)

16. (new) A control apparatus for a vehicle comprising:

a computer operable to execute a control program;

a first memory operable to store the control program; and

a second memory operable to store data produced in processing of the computer,

wherein the control program comprises:

a platform program for making the computer execute processing for inputting data from a hardware device and store inputted data as first data in a first section of the second memory, the first section being under management of the platform program;

an application program for making the computer execute processing for a vehicle control in accordance with an AP interface; and

a coupling processing program,

wherein the platform program provides the first data of the first section to processing using the coupling processing program in accordance with a PF interface as an interface standardized so as to be commonly utilized by processing using the application program made in accordance with a required specification,

wherein the coupling processing program makes the computer execute processing for performing mediation in the processing using the application program by converting the first data provided from the processing using the platform program to second data in accordance with the PF interface so as to be adapted to the AP interface as an interface satisfying the required specification, the second data being stored in a second section of the second memory that is under management of the coupling processing program, and

wherein the application program executes the processing for a vehicle control by using the second data stored in the second section.

17. (new) The control apparatus for a vehicle according to claim 16, wherein:

the platform program makes the computer perform an inputting and storing operation at every first predetermined interval; and

the coupling program makes the computer perform a converting and storing operation at every second predetermined interval, the second predetermined interval being different from the first predetermined interval.

18. (new) The control apparatus for a vehicle according to claim 17, wherein an object standardized as the PF interface is a structure of the data provided through the PF interface and update timing of these data.

19. (new) The control apparatus for a vehicle according to claim 17,

wherein the platform program has a program for making the computer execute processing for providing the data provided through the PF interface in a data format of accuracy higher than that requested in the processing using the application program, and

wherein the coupling processing program has a program for making the computer execute processing for adjusting a data format of the data provided through the PF interface so as to form the data format satisfying the required specification of the application program, and providing the adjusted data in accordance with the AP interface.

20. (new) The control apparatus for a vehicle according to claim 16, wherein the platform program has a program for making the computer execute processing for providing the data provided in accordance with the PF interface in sampling timing higher than that requested in the processing using the application program, and

wherein the coupling processing program has a program for making the computer execute processing for adjusting provision timing of the data provided through the PF interface to the sampling timing of data satisfying the required specification, and providing these adjusted data by the AP interface.

21. (new) The control apparatus for a vehicle according to claim 17, wherein the AP interface is constructed such that the data converted by the coupling processing program is referred by the processing using the application program.

22. (new) The control apparatus for a vehicle according to claim 17, wherein the AP interface is constructed such that the data converted by the coupling processing program are transmitted to the processing using the application program when there is a request of the data by the processing using the application program.

23. (new) The control apparatus for a vehicle according to claim 16, wherein the platform program has an interruption processing program for making the computer input the data from the hardware device by interruption from the hardware device,

and the interruption processing program has a program for making the computer execute processing for providing data based on the inputted result through the PF interface, and

wherein the coupling processing program further has an acquiring program as a program for making the computer execute processing for receiving data through the PF interface during an inhibition of a dispatch of another processing.